

Claims

What is claimed is:

1. A data display structure, comprising:

a main drawer D_0 that overlays a display screen, wherein D_0 is adapted to dynamically display in spreadsheet format a portion of a data feed; and

N additional drawers D_1, D_2, \dots, D_N in an overlay pattern $\{D_1, D_2, \dots, D_N\}$ relative to D_0 , wherein N is at least 2, wherein each drawer D_i ($i=1, 2, \dots, N$) is adapted to being opened or to being closed, wherein the N additional drawers include a Search drawer and an Alerts drawer such that the Alerts drawer includes M buttons B_1, B_2, \dots, B_M respectively identifying a subset S_1, S_2, \dots, S_M of the data feed, wherein M is at least 1, wherein selection of button B_m causes the Search drawer to dynamically display S_m in spreadsheet format, and wherein m is one of 1, 2, ..., M .

2. The data display structure of claim 1, wherein each drawer D_i ($i=1, 2, \dots, N$) includes a tab T_i adapted to be dragged in a first direction to open drawer D_i in the first direction and adapted to be dragged in a second direction to close drawer D_i in the second direction.

3. The data display structure of claim 1, wherein a row R_{MAIN} of data of the main drawer is highlighted for a predetermined period of time ΔT_{MAIN} during which R_{MAIN} is initially viewable.

1 4. The data display structure of claim 1, wherein a row R_{MAIN} of data of the main drawer is
2 highlighted in color for a predetermined period of time ΔT_{MAIN} during which R_{MAIN} is initially
3 viewable.

1 5. The data display structure of claim 1, wherein a row R_{SEARCH} of the Search drawer is
2 highlighted for a predetermined period of time ΔT_{SEARCH} during which R_{SEARCH} is initially
3 viewable.

1 6. The data display structure of claim 1, wherein a row R_{SEARCH} of the Search drawer is
2 highlighted in color for a predetermined period of time ΔT_{SEARCH} during which R_{SEARCH} is initially
3 viewable.

1 7. The data display structure of claim 1, wherein selection of button B_m causes B_m to be
2 highlighted until S_m becomes initially viewable.

1 8. The data display structure of claim 1, wherein selection of button B_m causes B_m to be
2 highlighted in color until S_m becomes initially viewable.

1 9. The data display structure of claim 1, wherein a sorting of the main drawer in accordance with
2 a sort key causes a sorting of the Search drawer in accordance with the sort key.

1 10. The data display structure of claim 1, wherein a sorting of the main drawer in accordance

2 with a sort key causes a sorting in accordance with the sort key of each drawer of the N
3 additional drawers that is sortable in accordance with the sort key.

1 11. The data display structure of claim 1, wherein a sorting of the Search drawer in accordance
2 with a sort key causes a sorting of the main drawer in accordance with the sort key.

1 12. The data display structure of claim 1, wherein a sorting a first drawer of the N additional
2 drawers in accordance with a sort key causes a sorting in accordance with the sort key of the
3 main drawer and of each remaining drawer of the N additional drawers that is sortable in
4 accordance with the sort key.

1 13. The data display structure of claim 1, wherein the M buttons constitutes a portfolio of buttons
2 that is user selectable from a menu that includes a plurality of portfolios of buttons.

1 14. The data display structure of claim 1, wherein the portion of the data feed is all of the data
2 feed.

1 15. The data display structure of claim 1, wherein the portion of the data feed is a portfolio subset
2 of the data feed.

1 16. The data display structure of claim 1, wherein a first drawer of the N additional drawers is
2 adapted to display content in accordance with a user command that is directed to the main drawer

3 or to a second drawer of the N additional drawers.

1 17. The data display structure of claim 1, wherein the data feed is a live data feed.

1 18. The data display structure of claim 1, wherein the data feed is a stored data feed.

1 19. The data display structure of claim 18, wherein the stored data feed is a video data feed.

continued

1 20. A data display structure, comprising:

2 a main drawer D_0 that overlays a display screen, wherein D_0 is adapted to dynamically
3 display in spreadsheet format a portion of a live data feed, and wherein the data feed comprises
4 stock bids and offers on a stock exchange; and

5 N additional drawers D_1, D_2, \dots, D_N in an overlay pattern $\{D_1, D_2, \dots, D_N\}$ relative to D_0 ,
6 wherein N is at least 2, wherein each drawer D_i ($i=1, 2, \dots, N$) is adapted to being opened or to
7 being closed, wherein the N additional drawers include a Search drawer and an Alerts drawer
8 such that the Alerts drawer includes M buttons B_1, B_2, \dots, B_M respectively identifying a subset
9 S_1, S_2, \dots, S_M of the data feed, wherein M is at least 1, wherein selection of button B_m causes the
10 Search drawer to dynamically display S_m in spreadsheet format, wherein m is one of 1, 2, ..., M,
11 and wherein B_1, B_2, \dots, B_M are each identified with a stock that trades on the stock exchange.

12 21. The data display structure of claim 20, wherein the stock exchange is the New York Stock
13 Exchange.

14 22. The data display structure of claim 20, wherein the data feed further comprises stock data
15 selected from the group consisting of stock halt data, stock delay data, stock resume data, stock
16 bid/offer cancellation data, and combinations thereof.

17 23. The data display structure of claim 20, wherein the spreadsheet format includes a Time
18 column, a Symbol column, a Bid column, an Offer column, a Bid Vol column, an Offer Vol
19 column, and a Status column.

1 24. The data display structure of claim 23, wherein the spreadsheet format further includes at
2 least one of a Halt Reason column and a Corp Action column.

1 25. The data display structure of claim 20, wherein all data of the data feed at a given time stamp
2 and relating to a given stock symbol is displayed in no more than one row of the main drawer
3 and in no more than one row of any of the N additional drawers.

Variable	Mean	Standard Deviation	Minimum	Maximum
Age	34.5	10.2	22	55
Gender	0.5	0.5	0	1
Marital Status	0.6	0.5	0	1
Education	12.5	1.5	10	16
Income	15000	5000	5000	30000
Health Status	0.7	0.5	0	1
Exercise Frequency	0.3	0.4	0	1
Stress Level	0.6	0.5	0	1
Sleep Quality	0.5	0.5	0	1
Dietary Habits	0.4	0.5	0	1
Alcohol Consumption	0.2	0.4	0	1
Smoking Status	0.1	0.3	0	1
Family Size	2.5	1.0	1	5
Work Hours	40	5	30	50
Job Satisfaction	0.6	0.5	0	1
Life Satisfaction	0.7	0.5	0	1
Overall Health Score	0.6	0.5	0	1

1 26. A method of dynamically displaying data, comprising:
2 overlaying a main drawer D_0 on a display screen;
3 dynamically displaying, in spreadsheet format on D_0 , a portion of a data feed; and
4 positioning N additional drawers D_1, D_2, \dots, D_N in an overlay pattern $\{D_1, D_2, \dots, D_N\}$
5 relative to D_0 , wherein N is at least 2, wherein each drawer D_i ($i=1, 2, \dots, N$) is adapted to being
6 opened or to being closed, wherein the N additional drawers include a Search drawer and an
7 Alerts drawer such that the Alerts drawer includes M buttons B_1, B_2, \dots, B_M respectively
8 identifying a subset S_1, S_2, \dots, S_M of the data feed, wherein M is at least 1, wherein selection of
9 button B_m causes the Search drawer to dynamically display S_m in spreadsheet format, and
10 wherein m is one of 1, 2, ..., M .

11 27. The method of claim 26, wherein each drawer D_i ($i=1, 2, \dots, N$) includes a tab T_i adapted to
12 be dragged in a first direction to open drawer D_i in the first direction and adapted to be dragged
13 in a second direction to close drawer D_i in the second direction, and further comprising dragging
14 the tab T_k of drawer D_k in the first direction or in the second direction, wherein k is one of 1, 2, ...,
15 and N .

1 28. The method of claim 26, further comprising highlighting a row R_{MAIN} of data of the main
2 drawer for a predetermined period of time ΔT_{MAIN} during which R_{MAIN} is initially viewable.

1 29. The method of claim 26, further comprising highlighting in color a row R_{MAIN} of data of the
2 main drawer for a predetermined period of time ΔT_{MAIN} during which R_{MAIN} is initially viewable.

1 30. The method of claim 26, further comprising highlighting a row R_{SEARCH} of the Search drawer
2 for a predetermined period of time ΔT_{SEARCH} during which R_{SEARCH} is initially viewable.

1 31. The method of claim 26, further comprising highlighting in color a row R_{SEARCH} of the Search
2 drawer for a predetermined period of time ΔT_{SEARCH} during which R_{SEARCH} is initially viewable.

1 32. The method of claim 26, further comprising if selecting button B_m then highlighting B_m
2 immediately following said selecting of B_m , until the portion of S_m becomes initially viewable.

1 33. The method of claim 26, further comprising if selecting button B_m then highlighting in color
2 B_m immediately following said selecting of B_m , until the portion of S_m becomes initially
3 viewable.

1 34. The method of claim 26, further comprising:

2 sorting the main drawer in accordance with a sort key; and

3 sorting the Search drawer in accordance with the sort key, wherein the sorting of the
4 Search drawer is triggered by the sorting of the main drawer.

1 35. The method of claim 26, further comprising:

2 sorting the main drawer in accordance with a sort key; and

3 sorting in accordance with the sort key each additional drawer that is sortable in
4 accordance with the sort key, wherein the sorting of the each additional drawer is triggered by the

5 sorting of the main drawer.

1 36. The method of claim 26, further comprising:

2 sorting the Search drawer in accordance with a sort key; and

3 sorting the main drawer in accordance with the sort key, wherein the sorting of the main

4 drawer is triggered by the sorting of the Search drawer.

1 37. The method of claim 26, further comprising:

2 sorting a first drawer of the N additional drawers in accordance with a sort key; and

3 sorting in accordance with the sort key each remaining drawer of the N additional

4 drawers that is sortable in accordance with the sort key, wherein the sorting of each such

5 remaining drawer is triggered by the sorting of the first drawer.

6 38. The method of claim 26, wherein the M buttons constitutes a portfolio of buttons that is user

7 selectable from a menu that includes a plurality of portfolios of buttons, and further comprising

8 selecting by the user the M buttons from the plurality of portfolios of buttons.

1 39. The method of claim 26, further comprising dynamically selecting the multisubset of the data

2 feed to be either all of the data feed or less than all of the data feed.

1 40. The method of claim 26, wherein the portion of the data feed is all of the data feed.

1 41. The method of claim 26, wherein the portion of the data feed is a portfolio subset of the data
2 feed.

1 42. The method of claim 26 further comprising:
2 executing a user command that is directed to the main drawer or to a first drawer of the N
3 additional drawers; and
4 displaying content on a second drawer of the N additional drawers based on the user
5 command.

43. The method of claim 26, wherein providing the data feed includes providing a live data feed.

44. The method of claim 26, wherein providing the data feed includes providing a stored data
feed.

45. The method of claim 44, wherein the stored data feed is a video data feed.

1 46. A method of dynamically displaying data, comprising:
2 overlaying a main drawer D_0 on a display screen;
3 dynamically displaying, in spreadsheet format on D_0 , a portion of a data feed;
4 positioning N additional drawers D_1, D_2, \dots, D_N in an overlay pattern $\{D_1, D_2, \dots, D_N\}$
5 relative to D_0 , wherein N is at least 2, wherein each drawer D_i ($i=1, 2, \dots, N$) is adapted to being
6 opened or to being closed, wherein the N additional drawers include a Search drawer and an
7 Alerts drawer such that the Alerts drawer includes M buttons B_1, B_2, \dots, B_M respectively
8 identifying a subset S_1, S_2, \dots, S_M of the data feed, and wherein M is at least 1;
9 selecting a button B_m , wherein m is one of 1, 2, ..., M ; and
10 dynamically displaying S_m , in spreadsheet format on the Search drawer, wherein said
11 dynamically displaying is triggered by the selecting of the button B_m .

1 47. A method of dynamically displaying data, comprising:
2 overlaying a main drawer D_0 on a display screen;
3 dynamically displaying, in spreadsheet format on D_0 , a portion of a data feed;
4 positioning N additional drawers D_1, D_2, \dots, D_N in an overlay pattern $\{D_1, D_2, \dots, D_N\}$
5 relative to D_0 , wherein N is at least 2, wherein the N additional drawers include a Search drawer
6 and an Alerts drawer such that the Alerts drawer includes M buttons B_1, B_2, \dots, B_M respectively
7 identifying a subset S_1, S_2, \dots, S_M of the data feed, wherein M is at least 1, wherein selection of
8 button B_m causes the Search drawer to dynamically display S_m in spreadsheet format, wherein m
9 is one of 1, 2, ..., M ; and
10 opening or closing drawer D_i , wherein i is one of 1, 2, ..., and N .

1 48. A method of dynamically displaying data, comprising:
2 overlaying a main drawer D_0 on a display screen;
3 dynamically displaying, in spreadsheet format on D_0 , a portion of a data feed, wherein the
4 data feed comprises stock bids and offers on a stock exchange;
5 positioning N additional drawers D_1, D_2, \dots, D_N in an overlay pattern $\{D_1, D_2, \dots, D_N\}$
6 relative to D_0 , wherein N is at least 2, wherein each drawer D_i ($i=1, 2, \dots, N$) is adapted to being
7 opened or to being closed, wherein the N additional drawers include a Search drawer and an
8 Alerts drawer such that the Alerts drawer includes M buttons B_1, B_2, \dots, B_M respectively
9 identifying a subset S_1, S_2, \dots, S_M of the data feed, wherein M is at least 1, and wherein selection
10 of button B_m causes the Search drawer to dynamically display S_m in spreadsheet format, wherein
11 m is one of 1, 2, ..., M , and wherein B_1, B_2, \dots, B_M are each identified with a stock that trades on
12 the stock exchange.

49. The method of claim 48, wherein the stock exchange is the New York Stock Exchange.

1 50. The method of claim 48, wherein the live data feed further comprises stock data selected
2 from the group consisting of stock halt data, stock delay data, stock resume data, stock bid/offer
3 cancellation data, and combinations thereof.

1 51. The method of claim 48, wherein the spreadsheet format includes a Time column, a Symbol
2 column, a Bid column, an Offer column, a Bid Vol column, an Offer Vol column, and a Status
3 column.

- 1 52. The method of claim 50, wherein the spreadsheet format further includes at least one of a
- 2 Halt Reason column and a Corp Action column.

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53. A method of dynamically displaying data, comprising:

overlaying a main drawer D_0 on a display screen;

dynamically displaying, in spreadsheet format on D_0 , a portion of a data feed, wherein the data feed comprises stock bids and offers on a stock exchange;

positioning N additional drawers D_1, D_2, \dots, D_N in an overlay pattern $\{D_1, D_2, \dots, D_N\}$ relative to D_0 , wherein N is at least 2, wherein each drawer D_i ($i=1, 2, \dots, N$) is adapted to being opened or to being closed, wherein the N additional drawers include a Search drawer and an Alerts drawer such that the Alerts drawer includes M buttons B_1, B_2, \dots, B_M respectively identifying a subset S_1, S_2, \dots, S_M of the data feed, wherein M is at least 1, and wherein B_1, B_2, \dots, B_M are each identified with a stock that trades on the stock exchange;

selecting a button B_m , wherein m is one of 1, 2, ..., M ; and

dynamically displaying S_m in spreadsheet format on the Search drawer, wherein said dynamically displaying is triggered by the selecting of the button B_m .

54. A method of dynamically displaying data, comprising:

- overlaying a main drawer D_0 on a display screen;
- dynamically displaying, in spreadsheet format on D_0 , a portion of a data feed, wherein the data feed comprises stock bids and offers on a stock exchange;
- positioning N additional drawers D_1, D_2, \dots, D_N in an overlay pattern $\{D_1, D_2, \dots, D_N\}$ relative to D_0 , wherein N is at least 2, wherein the N additional drawers include a Search drawer and an Alerts drawer such that the Alerts drawer includes M buttons B_1, B_2, \dots, B_M respectively identifying a subset S_1, S_2, \dots, S_M of the data feed, wherein M is at least 1, wherein selection of button B_m causes the Search drawer to dynamically display S_m in spreadsheet format, wherein m is one of 1, 2, ..., M , and wherein B_1, B_2, \dots, B_M are each identified with a stock that trades on the stock exchange; and
- opening or closing drawer D_i , wherein i is one of 1, 2, ..., and N .

1 55. A data display structure, comprising:

2 a main drawer D_0 that overlays a display screen, wherein D_0 is adapted to dynamically
3 display a portion of a data feed; and

4 N additional drawers D_1, D_2, \dots, D_N in an overlay pattern $\{D_1, D_2, \dots, D_N\}$ relative to D_0 ,
5 wherein N is at least 2, wherein each drawer D_i ($i=1, 2, \dots, N$) is adapted to being opened or to
6 being closed, and wherein a first drawer of D_0, D_1, \dots, D_N is adapted to display content in
7 accordance with a user command that is directed to a second drawer of D_0, D_1, \dots, D_N .

1 56. A method of dynamically displaying data, comprising:

2 overlaying a main drawer D_0 on a display screen;

3 dynamically displaying on D_0 a portion of a data feed; and

4 positioning N additional drawers D_1, D_2, \dots, D_N in an overlay pattern $\{D_1, D_2, \dots, D_N\}$

5 relative to D_0 , wherein N is at least 2, wherein each drawer D_i ($i=1, 2, \dots, N$) is adapted to being

6 opened or to being closed;

7 executing a user command that is directed to a first drawer of D_0, D_1, \dots, D_N ; and

8 displaying content on a second drawer of D_0, D_1, \dots, D_N based on the user command.